

PRIORITY

1969 APR 15 16 15Z

OUT 67455

TOP SECRET 151606Z APR 69 CITE [REDACTED] 5093

SUBJECT: EPHEMERIS GENERATION

THIS IS A REPEAT OF [REDACTED] 5838 DATED 11 MARCH 1969. PLEASE
REPLY AS SOON AS POSSIBLE.SEVERAL QUESTIONS HAVE ARISEN REGARDING TELEMETRY DATA RECEIVED
BEGINNING EACH REV ON [REDACTED] REQUESTS CLARIFICATION ON
THE FOLLOWING:1. RE THE X, Y, Z POSITION VECTORS, FIRST AND SECOND TIME
DERIVATIVES: THESE VALUSE ARE DEFINED IN A GEOCENTRIC INERTIAL
REFERENCE FRAME. AT WHAT TIME IS THIS REFERENCE FRAME DEFINED?
NEED THESE VECTOR VALUES BE CORRECTED FOR PRECESSION AND NUTATION?2. RE EPHEMERIS ITEMS PRODUCED AT PHOTO EXPOSURE TIMES: WHAT
TYPE OF INTERPOLATION IS USED ON THE VECTOR POSITIONS TO PRODUCE SAID
ITEMS? IS A LAGRANGIAN FIFTH ORDER INTERPOLATION SUFFICIENT TO
PRESERVE ACCURACY? SEND ANSWER ATTN: [REDACTED]
TOP SECRET

END OF MESSAGE

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ADVANCE CY
SANITIZED
WITH TEXT